AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Canceled)

2. (Previously Presented) The method of claim 24, wherein the two walls mesh with one another by material deformation performed in punctate fashion, with a diameter of from 3 to 6 mm.

3. (Previously Presented) The method of claim 24, wherein at least one wall is provided with circular indentations, and connections are made in a region of the indentations with spacing on all sides from an edge thereof.

4. (Previously Presented) The method of claim 24, wherein the two walls are preshaped prior to being joined.

5. (Previously Presented) The method of claim 24, wherein the flow-through chamber is exposed to an internal pressure that is elevated compared to an external pressure.

6. (Previously Presented) The method of claim 24, wherein denticulation of the two walls is stabilized by pressing on a ring around a deformation and inserting a disk in the deformation.

7. (Canceled)

8. (Previously Presented) The heat exchanger of claim 12, wherein denticulations of the walls are embodied annularly.

9. (Previously Presented) The heat exchanger of claim 8, comprising, for each connecting point, a ring encompassing an eversion.

10. (Previously Presented) The heat exchanger of claim 12, wherein the denticulations are produced by an upsetting-pressing process and without penetration of sheet metal used to form the walls.

11. (Previously Presented) The heat exchanger of claim 12, wherein at least one wall comprises sheet copper with a thickness of from 0.3 to 0.8 mm.

12. (Previously Presented) A heat exchanger comprising:

two joined together walls forming a flow-through chamber for a heat transfer medium, the walls being joined together at a plurality of connecting points inside a surface between edges of the heat exchanger, wherein the walls mesh with one another at the connecting points inside the surface between the edges of the heat

exchanger and are punctate fastened to one another by compression molded annular denticulations, wherein the denticulations are disposed with a mutual spacing between denticulations of from 10 to 50 mm.

13. (Previously Presented) The heat exchanger of claim 12, wherein the denticulations are disposed in at least one of rows and in a grid pattern.

14. (Previously Presented) The heat exchanger of claim 12, wherein the denticulations are disposed inside an approximately circular indentation of the walls.

15. (Canceled)

16. (Canceled)

17. (Previously Presented) The construction kit of claim 26, wherein the connecting elements are plug connectors.

18. (Previously Presented) The construction kit of claim 26, having a pump.

19. (Previously Presented) The construction kit of claim 26, having a hot-water tank.

20. (Canceled)

21. (Previously Presented) The method of claim 24, wherein the two walls are made of sheet copper.

22. (Previously Presented) The heat exchanger of claim 11, wherein the thickness is from 0.5 to 0.65 mm.

23. (Previously Presented) The heat exchanger of claim 12, wherein the mutual spacing between denticulations is between 20 and 30 mm.

24. (Currently Amended) A compression-molding sheet metal joining method for producing a heat exchanger ~~according to claim 12~~ having a flow-through chamber for a heat transfer medium, comprising:

disposing two sheet-metal walls facing one another to form a flow-through chamber for a heat transfer medium;

punctate fastening the two sheet-metal walls to one another at a plurality of connecting points inside the surface between the edges of the flow-through chamber; and

meshing the walls by material deformation at each connecting point with compression molded, annular denticulations disposed at a mutual spacing between the denticulations of from 10 to 50 mm.

25. (Canceled)

26. (Previously Presented) A construction kit for a heat exchanger system, comprising:

a plurality of heat exchangers; and

connecting elements for the connections of the heat exchangers configured according to claim 12.

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (New) A compression-molding sheet-metal joining method for producing a heat exchanger having a flow-through chamber for a heat transfer medium, comprising:

providing two sheet-metal walls;

shaping out indentations providing reinforcement by deformation of material of at least one of the two sheet-metal walls;

disposing the two sheet-metal walls facing one another, the indentations in the one sheet-metal wall being in contact with the other sheet-metal wall to form a flow-through chamber; and

punctate fastening the walls to one another at a plurality of connecting points inside the indentations with spacing on all sides from an edge thereof by

compression-molding the walls together by at least one of a material engagement and a positive engagement.